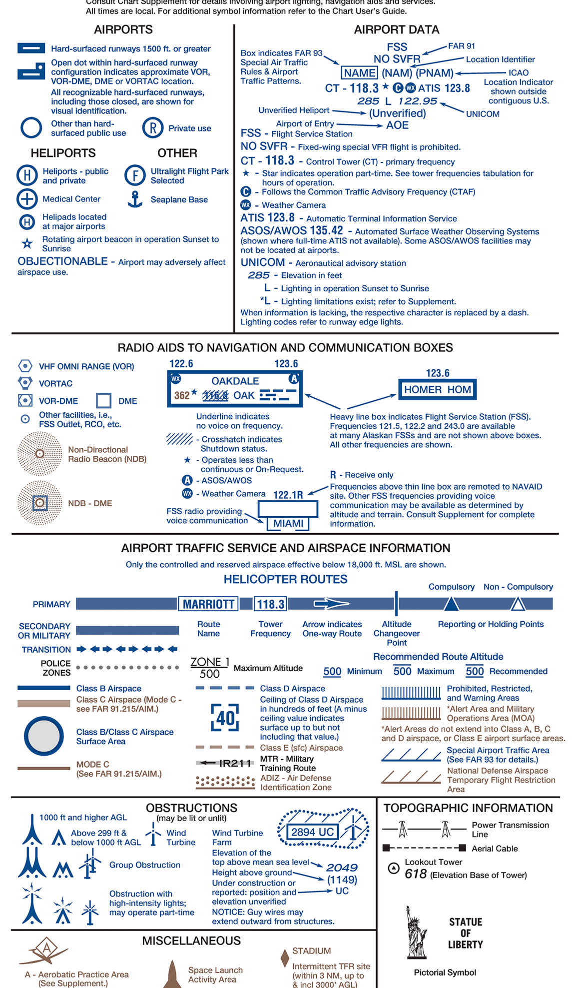
HELICOPTER ROUTE CHART NEW YORK LEGEND

DOWNTOWN MANHATTAN STATUE OF LIBERTY/ ELLIS ISLAND EASTERN LONG ISLAND

NEW YORK

Consult Chart Supplement for details involving airport lighting, navigation aids and services. All times are local. For additional symbol information refer to the Chart User's Guide.



CAUTION: Unmanned Aircraft Systems (UAS) may be approved to operate above critical infrastructure including obstacles and linear features such as high-voltage powerlines, pipelines and railroads. Check NOTAMs and see AIM for details.

Features normally used as checkpoints for controlling VFR traffic are emphasized on this series of charts so they may be readily identified.

Example: POWER PLANT

The name shown is that used by the controlling personnel and is not necessarily the official name of the feature.

Class G Airspace within the United States extends up to 14,500 feet MSL. At and above this altitude all airspace is within Class E Airspace, excluding the airspace less than 1500 feet above the terrain and certain special use airspace areas.

ATTENTION

THIS CHART CONTAINS MAXIMUM ELEVATION FIGURES (MEF). The Maximum Elevation Figures shown in quadrangles bounded by ticked lines of latitude and longitude are represented in THOUSANDS and HUNDREDS of feet above mean sea level. The MEF is based on information available concerning the highest known feature in each quadrangle, including terrain and obstructions (trees, towers, antennas, etc.).

Example: 12,500 feet 12 5

NORTH AMERICAN AEROSPACE DEFENSE COMMAND (NORAD) PROCEDURES

All aircraft operating in the U.S. national airspace, if capable, will maintain a listening watch on guard frequency VHF 121.5 or UHF 243.0. It is incumbent upon all aviators to know and understand their responsibilities if intercepted. Review "AIM" section 5-6-13 for intercept procedures. Additionally, if U.S. military fighter jets intercept an aircraft and flares are dispensed in the area of that aircraft, aviators will pay strict attention, contact air traffic control immediately on the local frequency or on VHF guard 121.5 or UHF 243.0 and follow the interceptor visual ICAO signals. Be advised that non-compliance may result in the use of force.

CAUTION: This chart is primarily designed for VFR navigational purposes and does not purport to indicate the presence of all power transmission and telecommunication lines, terrain or obstacles which may be encountered below reasonable and safe altitudes.

ROUTE DESCRIPTIONS
WESTCHESTER TERMINAL AREA

NOVEMBER ROUTE:

ARRIVAL - Enter at Byram Reservoir, proceed south along the right (west) side of I-684 (outbound traffic will be over I-684) until abeam the office building. Make a left turn and proceed along the northeast side Tamarack Golf Course to overfly Wooley Pond, direct to and overfly the AVCO building, then direct to the airport.

DEPARTURE - Fly direct to and overfly AVCO building, direct to overfly Wooley Pond. Proceed along the northeast side of Tamarack Golf Course to I-684 then overfly I-684 (inbound traffic will be slightly west of I-684) to Byram Reservoir, on course.

SIERRA ROUTE:

ARRIVAL - Enter at intersection of Hutchinson River Parkway (Hutch) and Mamaroneck Avenue, then overfly Hutch to intersection of I-684. Proceed north along the right (east) side of I-684 to Barnes Lane (at no time does the route go west of I-684). Track inbound to the airport via the extended centerline of taxiway Charlie (old runway 5/23).

DEPARTURE - Track outbound on the extended centerline of taxiway Charlie (old runway 5/23) to Barnes Lane, then south along the left (east) side of I-684 to the intersection of the Hutchinson River Parkway (Hutch) (at no time does the route go west of I-684). Overfly Hutch to intersection of Mamaroneck Avenue, on course.

SIERRA ROUTE/BRONX ROUTE CONNECTION - Wakefield Switchyard direct northeast to the railroad tracks. Eastbound over the railroad tracks to intersection with Hutchinson River Parkway. Northbound over the Hutchinson River Parkway to intersection with Mamaroneck Avenue.

WHISKEY ROUTE:

ARRIVAL - Enter via Tarrytown Reservoir direct Kensico Dam, passing south of radio tower (870 MSL) and overflying Kensico Cemetery, direct Forest Lake (staying south of the extended centerline of runway 11/29), direct to southwestern end of taxiway Charlie (old runway 5/23), then direct destination on airport.

DEPARTURE - Fly outbound to southwestern end of taxiway Charlie (old runway 5/23), direct Forest Lake, direct Kensico Dam, direct Tarrytown Reservoir, passing over Kensico Cemetery and north of radio tower (870 MSL), on course.

ECHO ROUTE:

ARRIVAL - Intersect Merritt Parkway east of Putnam Lake. Follow parkway to Interchange 28, then direct AVCO building, direct destination on airport.

DEPARTURE - Fly direct to and overfly AVCO building, direct Interchange 28, then overfly Merritt Parkway to a point east of Putnam Lake, on course.

NOTE: PILOTS ANNOUNCE INTENDED ROUTE ON INITIAL CONTACT.

CAUTION: ROUTES DEPICTED AND ALTITUDES ASSIGNED DO NOT PROVIDE OBSTACLE CLEARANCE PROTECTION. PILOTS ARE RESPONSIBLE FOR SEEING AND AVOIDING TERRAIN AND OBSTACLES. THIS CHART DOES NOT DEPICT COMPLETE OBSTACLE INFORMATION DUE TO THE HIGH CONCENTRATION OF OBJECTS IN THE AREA. OBSTACLES AND OTHER FEATURES SUCH AS POWER TRANSMISSION LINES AND PROMINENT STRUCTURES ARE DEPICTED FOR LANDMARK VALUE ONLY.

REGULATIONS REGARDING FLIGHTS OVER CHARTED NATIONAL PARK SERVICE AREAS, U.S. FISH AND WILDLIFE SERVICE AREAS, BUREAU OF LAND MANAGEMENT AREAS AND U.S. FOREST SERVICE AREAS

The landing of aircraft is prohibited on lands or waters administered by the National Park Service, U.S. Fish and Wildlife Service, Bureau of Land Management or U.S. Forest Service (hereafter referred to as Agency/Agencies) without authorization from the respective agency. Exceptions include: 1) when forced to land due to an emergency beyond the control of the operator, 2) at officially designated landing sites, or 3) on approved official business of the Federal Government. All aircraft are requested to maintain a minimum altitude of 2,000 feet above the surface of the following: National Parks, Monuments, Seashores, Lakeshores, Recreation Areas, Scenic Riverways, Wildlife Refuges, Big Game Refuges, Game Ranges, Wildlife Ranges, Conservation Areas, Wild and Scenic Rivers, Wilderness Areas and Primitive Areas administered by the Agencies. FAA Advisory Circular (AC) 91-36, "Visual Flight Rules (VFR) Flight Near Noise-Sensitive Areas," defines the surface as: the highest terrain within 2,000 feet laterally of the route of flight, or the upper-most rim of a canyon or valley. Federal regulations also prohibit airdrops by parachute or other means of persons, cargo, or objects from aircraft on lands administered by the four agencies without authorization from the respective agency. Exceptions include: 1) emergencies involving the safety of human life, or 2) threat of serious property loss.

.... Boundary of Agency Areas

WESTCHESTER TERMINAL AREA ROUTE COORDINATES

NOVEMBER ROUTE:			
N6	Avco Building	41-04.52N	073-42.02W
N5	Wooley Pond	41-04.87N	073-41.86W
N4	Point in RH gulley S of corner on Richmond Hill Rd	41-05.12N	073-41.94W
N3	E side of Tamarack Golf Course	41-05.67N	073-42.39W
N2	I-684 @ State Line	41-06.46N	073-42.74W
N1	S end of Byram Reservoir	41-09.34N	073-41.42W
WHISKEY ROUTE:			
W5	End of Old Runway (Taxiway Charlie)	41-03.74N	073-43.04W
W4	Forest Lake	41-03.69N	073-43.99W
W3	Kensico Dam	41-04.44N	073-45.97W
W2	Tower (Strobe Lighted)	41-04.74N	073-48.27W
W1	Tarrytown Reservoir	41-05.01N	073-49.97W
SIERRA ROUTE:			
S6	End of Old Runway (Taxiway Charlie)	41-03.74N	073-43.04W
S5	Barnes Lane Overpass	41-03.21N	073-43.62W
S4	Point E of I-684 @ Anderson Hill Road	41-02.09N	073-43.21W
S3	Intersection of Hutchinson River Parkway & I-684	41-01.16N	073-42.92W
S2	Intersection of Hutchinson River Parkway & S end of Maplemoor Golf Course	41-00.01N	073-43.56W
S1	Intersection of Hutchinson River Parkway & Mamaroneck Avenue	40-58.99N	073-44.66W
ECHO ROUTE:			
E6	Avco Building	41-04.52N	073-42.02W
E5	N Side of Interchange #28 on Merritt Parkway	41-05.11N	073-39.91W
E4	N Side of Interchange #29 on Merritt Parkway	41-05.74N	073-39.11W
E3	N Tip of Putnam Lake across Merritt Parkway	41-05.87N	073-38.24W
E2	Interchange #31 on the Merritt Parkway	41-05.72N	073-37.97W
E1	Point 1/2 mi. SE of Interchange #31 on the Merritt Parkway	41-05.41N	073-37.47W

Training for the New York Class B Airspace Hudson River and East River Exclusion Special Flight Rules Area is available online at www.FAASafety.gov. The online course is called "New York City Special Flight Rules Area (SFRA)".

SPECIAL FLIGHT RULES AREA (SFRA)

PILOTS: PLEASE REQUEST TO FLY THESE ROUTES AT 2000' WHEN PRACTICAL AND POSSIBLE.

ON DEPARTURE USE EXPEDITIOUS CLIMB TO ALTITUDE. ON DESCENT FLY PROFILE AS PER NEIGHBORLY GUIDE.

ROUTE DESCRIPTIONS
REPUBLIC TERMINAL AREA

SOUTHERN ROUTE:

ARRIVAL - Enter at Southern State Parkway and the Seaford Oyster Bay Expressway (Exit 27). Overfly Southern State Parkway until Route 110 (Exit 32), then northbound to Route 109.

DEPARTURE - Southbound and parallel runway 01/19 until intersection of Route 109 & 110. Overfly Southern State Parkway until Seaford Oyster Expressway, then proceed on course.

RECOMMENDED ALTITUDE - 1100 FEET.

MICROWAVE ROUTE:

ARRIVAL - Enter at Plainview and I-495 (Exit 46) and proceed directly to Microwave Tower, then southeast bound to Huntington Hilton. Follow Route 110 until airport.

DEPARTURE - Northbound and parallel runway 01/19 until Multiplex Theater. Route 110 North until Huntington Hilton, then northwest bound to Microwave Tower. Intercept Long Island Expressway then proceed on course.

RECOMMENDED ALTITUDE - 1100 FEET.

TRANSITIONS FROM THE NEW YORK CITY HELICOPTER ROUTES
REPUBLIC TERMINAL AREA

NYC ROUTING TO MICROWAVE ROUTE:

THROGS - Join Long Island Expressway and proceed to M1.

NYC ROUTING TO SOUTHERN ROUTE:

SOUTH SHORE - Join Meadowbrook Route and proceed to Southern State Parkway and proceed to S1.

MEADOWBROOK - Join the Southern State Parkway and proceed to S1.

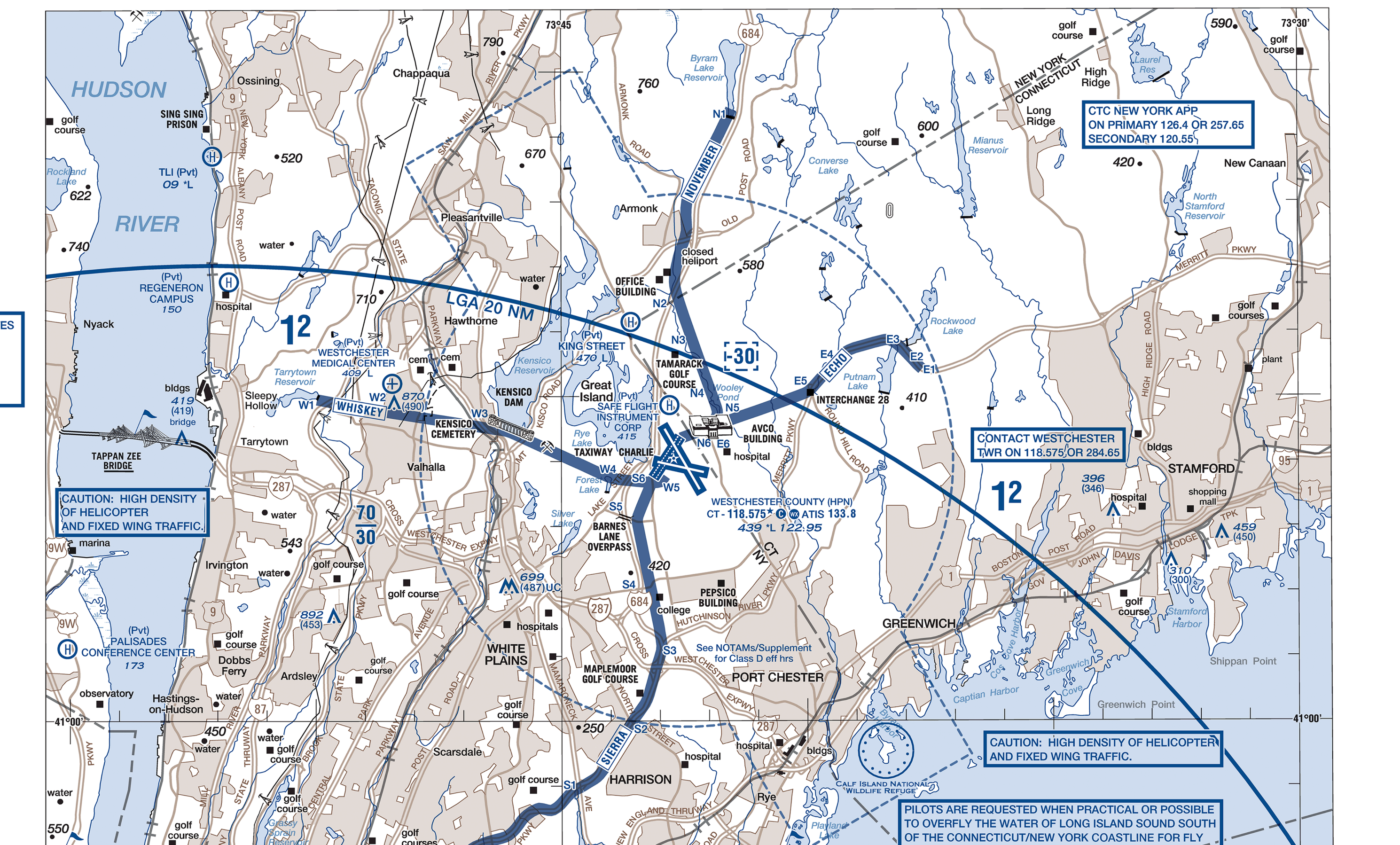
NOTE: PILOTS ANNOUNCE INTENDED ROUTE ON INITIAL CONTACT.

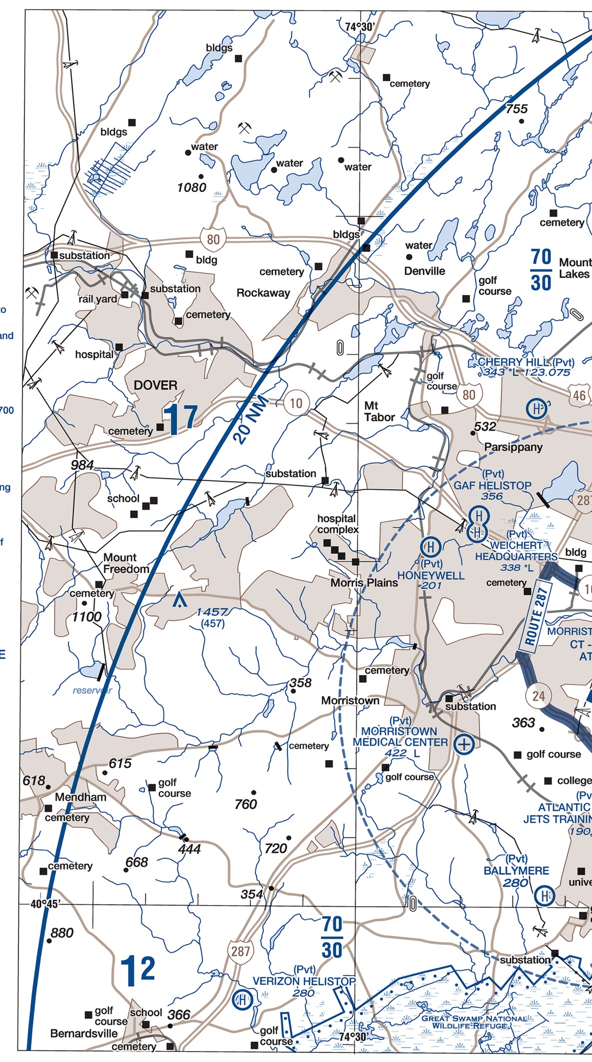
CAUTION: ROUTES DEPICTED AND ALTITUDES ASSIGNED DO NOT PROVIDE OBSTACLE CLEARANCE PROTECTION. PILOTS ARE RESPONSIBLE FOR SEEING AND AVOIDING TERRAIN AND OBSTACLES. THIS CHART DOES NOT DEPICT COMPLETE OBSTACLE INFORMATION DUE TO THE HIGH CONCENTRATION OF OBJECTS IN THE AREA. OBSTACLES AND OTHER FEATURES SUCH AS POWER TRANSMISSION LINES AND PROMINENT STRUCTURES ARE DEPICTED FOR LANDMARK VALUE ONLY.

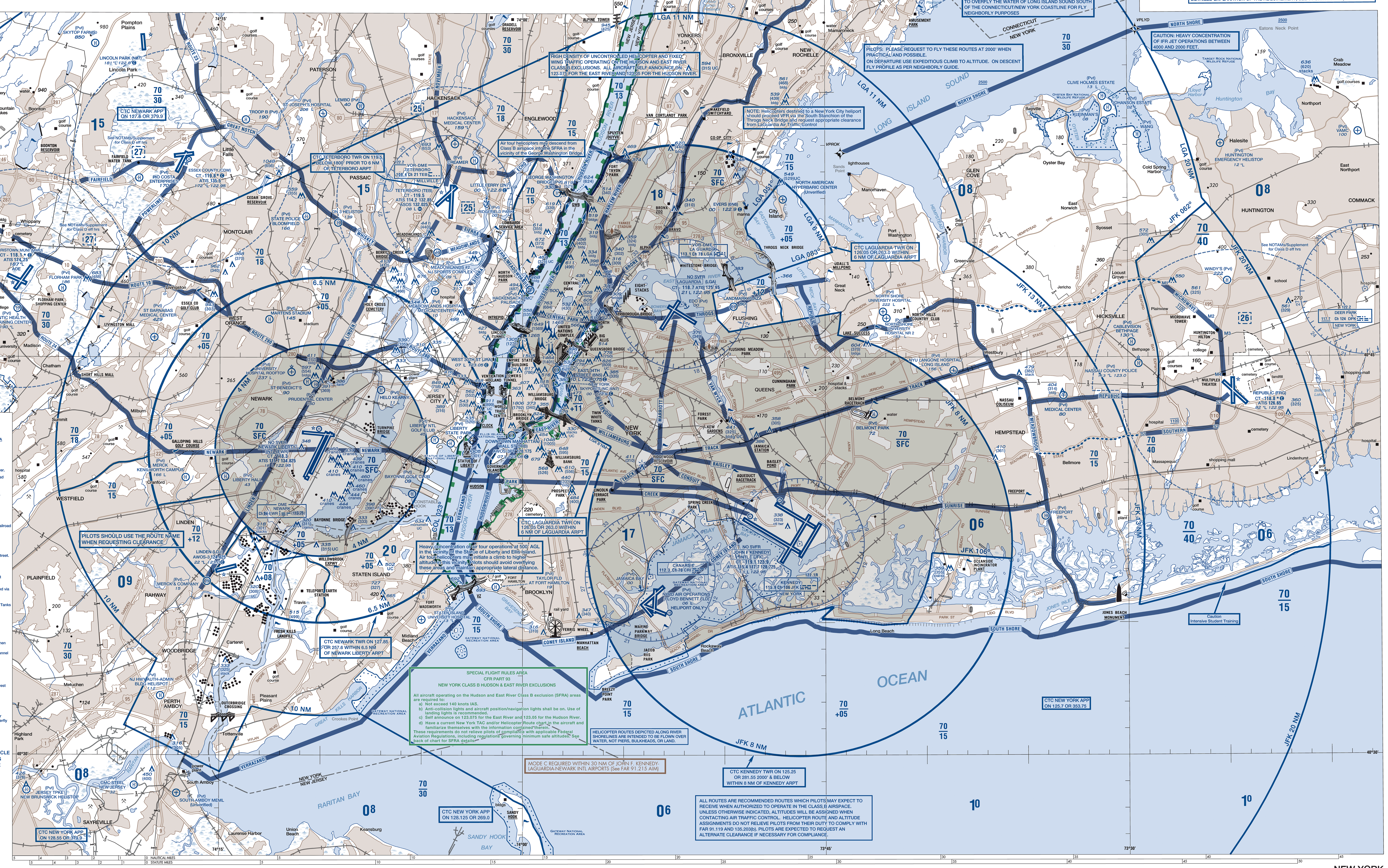
REPUBLIC TERMINAL AREA ROUTE COORDINATES

SOUTHERN ROUTE:			
S3	Route 109 & 110	40-43.36N	073-25.51W
S2	Southern State Parkway & Route 110 (Exit 32)	40-42.36N	073-25.76W
S1	Southern State Parkway & Seaford Oyster Bay Expressway (Exit 27)	40-42.07N	073-29.44W
MICROWAVE ROUTE:			
M4	Multiplex Theater	40-44.33N	073-25.29W
M3	Huntington Hilton	40-45.95N	073-25.54W
M2	Microwave Tower	40-46.52N	073-26.50W
M1	Plainview & I-495 (Exit 46)	40-47.75N	073-28.08W

CIVIL HELICOPTER PILOTS OPERATING VFR ALONG THE NORTHERN SHORELINE OF LONG ISLAND, NEW YORK BETWEEN THE VPLYD WAYPOINT AND ORIENT POINT, MUST UTILIZE THE NORTH SHORE HELICOPTER ROUTE AND ALTITUDE, AS PUBLISHED. DEVIATIONS ARE PERMITTED FOR SAFETY, WEATHER CONDITIONS, OR TRANSITIONING TO OR FROM A DESTINATION OR POINT OF LANDING. FOR A DETAILED EXPLANATION OF THE REQUIREMENT, SEE 14 CFR PART 93, SUBPART H.







NEW YORK HELICOPTER

HELICOPTER ROUTE CHART SCALE 1:125,000

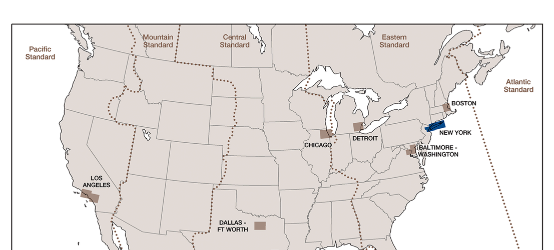
Federal Aviation Administration

EFFECTIVE 0901Z 19 MAR 2026

TO 0901Z 14 MAY 2026

Consult NOTAMs for latest information

Consult/Subscribe to FAA Safety Alerts and Charting Notices at: http://www.faa.gov/air_traffic/flight_info/aeronav/safety_alerts/



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Warning: Refer to current foreign charts and flight information publications for information within foreign airspace.

FAA Product ID: HELNY

NSN 7641014104426

NGA REF. NO. HELOXNEWYORKVFR

EFF. DATE 26078

ROUTE DESCRIPTIONS
NEWARK TERMINAL AREA

VERRAZANO ROUTE: Hudson Checkpoint direct via Hudson River to center of Verrazano Bridge to offshore east of Staten Island shoreline (maintain clearance east of Gateway National Recreation Area) to Raritan River.

NEWARK ROUTE: Hudson Checkpoint direct east end of Turnpike Bridge, direct EWR direct Galloping Hills Golf Course.

LINDEN ROUTE: LDJ direct EWR west of runway 11 direct Holy Cross Cemetery direct Berry's Creek Bridge.

ROUTE 280: Essex County Country Club Golf Course via Route I-280 to power plant direct West Entrance of Holland Tunnel. Note: Power plant has 5 in-line stacks.

MORRISTOWN TERMINAL AREA

ROUTE 10: Intersection of I-287 and New Jersey Highway Route 10. Eastbound over New Jersey Highway Route 10 to Essex Co Golf Club.

ROUTE 24: Intersection of I-287 and New Jersey Highway Route 24. Southbound over New Jersey Highway 24 to intersection of Route 24 & I-78. Direct to New Jersey Highway 22 to Galloping Hills Golf Course.

ROUTE 287: Intersection of I-287 and New Jersey Highway Route 24 to intersection of I-287 and New Jersey Highway Route 10.

TETERBORO TERMINAL AREA

NOVEMBER ROUTE: West of TEB runway 19 centerline direct north to I-80 westbound to Route 17 to Garden State Parkway.

ECHO ROUTE: West of TEB runway 24 centerline remaining east of TEB runway 19 centerline direct northeast to I-80 eastbound to George Washington Bridge.

SIERRA ROUTE:

DEPARTURE - Direct to windsock at Coca Cola plant to stack at metal treatment plant direct to the Lombardi Service Area. REMAINING ON THE SOUTH SIDE OF EMPIRE BLVD. AT ALL TIMES, to the west entrance of the Lincoln Tunnel (via overhead N.J. Turnpike, I-95, - east extension and Route 3) or North Hudson Park.

ARRIVAL - Via the west entrance to the Lincoln Tunnel or via North Hudson Park to the Lombardi Service Area direct to stack at metal treatment plant direct to windsock at Coca Cola plant. REMAINING ON THE SOUTH SIDE OF EMPIRE BLVD. AT All TIMES, then direct to the airport REMAINING EAST OF THE EXTENDED CENTERLINE OF RUNWAY 01/19 and CLEAR ALL RESIDENTIAL AREAS.

WHISKEY ROUTE: TEB direct 1 NM south direct Berry's Creek Bridge via Route 3 to intersection of Garden State Parkway.

MEADOWLANDS ROUTE: TEB between extended centerlines to Berry's Creek to Meadowlands Sports Complex eastbound between Giants Stadium and racetrack direct Lombardi Service Area (Preferential route between 2200 and 0700 local) .

ESSEX COUNTY TERMINAL AREA

ROUTE 23: Southeast via Route 23 to intersection I-80 and US route 46. West via Route 46 to industrial area paralleling and east of runway 22 final approach direct CDW.

GREAT NOTCH: Intercept route at intersection of US Route 46 and Garden State Parkway. West via Route 46 to industrial area paralleling and east of runway 22 final approach direct CDW.

POWERLINE: West-northwest via I-280 to Eisenhower Expressway cloverleaf northeast via powerline to tower east of runway 4 final approach to CDW.

FAIRFIELD: Intercept route at intersection of I-280, US Route 46 and I-80. East via I-80 to Fairfield water tank direct CDW between extended centerlines of runway 10 and runway 4.

NOTE: PILOTS ANNOUNCE INTENDED ROUTE ON INITIAL CONTACT.

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EXAMPLES OF CLASS B ALTITUDES

70 — — — Ceiling in hundreds of feet MSL

30 — — — Floor in hundreds of feet MSL

(Floors extending "upward from above" a certain altitude are preceded by a (+). Operations at and below these altitudes are outside of Class B Airspace.)

CONTROL TOWER FREQUENCIES ON NEW YORK HELICOPTER ROUTE CHART

Airports with control towers are indicated on the face of the chart by the letters CT followed by the primary VHF tower frequency(ies). Information for each tower is listed in the table below. Operational hours are local time. The primary VHF and UHF tower and ground control frequencies are listed.

Automatic Terminal Information Service (ATIS) frequencies shown on the face of the chart are arrival VHF/UHF frequencies. All ATIS frequencies are listed in the table below. ATIS operational hours may differ from tower operational hours.

"MON-FRI" indicates Monday through Friday.

O/T indicates other times.

CONTROL TOWER	OPERATES	TOWER	GND CON	ATIS
ESSEX COUNTY	0700-2300	119.8	121.9	135.5
JOHN F KENNEDY INTL	CONTINUOUS	119.1 (RWYS 4R/22L & 13L/31R) 123.9 (RWYS 4L/22R & 13R/31L) 281.55	121.9 348.6	128.725 ARR 117.7 NE ARR 115.4 SW
LAGUARDIA	CONTINUOUS	118.7 263.0	121.7 263.0	ARR 125.95 DEP 127.05
MORRISTOWN MUNI	0645-2230	118.1 353.9	134.2	124.25
NEWARK LIBERTY INTL	CONTINUOUS	118.3 257.6	121.8	134.825 ARR 115.7
REPUBLIC	0700-2300	118.8 279.65	121.6 269.6	126.65
TETERBORO	CONTINUOUS	119.5	121.9	114.2 132.85
WESTCHESTER COUNTY	0600-2300	118.575 284.65	121.825	133.8

CLASS B, CLASS C, TRSA, AND SELECTED APPROACH CONTROL FREQUENCIES

FACILITY	FREQUENCIES	SERVICE AVAILABILITY
NEW YORK CLASS B	125.7 353.75 (071°-142°) 128.125 269.0 (142°-231°) 128.55 379.9 (231°-270°) 127.6 379.9 (270°-328°) 126.4 120.55 257.65 (329°-071°) 125.25 281.55 (2000' & BELOW WITHIN 8 NM OF KENNEDY) 127.85 257.6 (WITHIN 6.5 NM OF NEWARK) 126.05 263.0 (WITHIN 6 NM OF LAGUARDIA)	CONTINUOUS

FOR PROCUREMENT: For digital products, visit http://www.faa.gov/air_traffic/flight_info/aeronav/digital_products/ For a list of approved FAA Print Providers, visit our website at: http://www.faa.gov/air_traffic/flight_info/aeronav/print_providers/

REPORTING CHART ERRORS

You are requested to inform us of chart errors and/or additions that come to your attention while using this chart. See frequently asked questions (FAQs) on our website at http://faa.gov/go/ais/ prior to contacting us via toll free number at 1-800-638-8972 or visit https://www.faa.gov/air_traffic/flight_info/aeronav/aero_data/ or mail to: FAA, Aeronautical Information Services,1305 East-West Highway, SSMC 4, Suite 4400, Silver Spring, MD 20910-3281.

For weather camera information visit https://weathercams.faa.gov

Lambert Conformal Conic Projection Standard Parallels 33° and 45°

Horizontal Datum: North American Datum of 1983 (World Geodetic System 1984)

VISUAL CHECKPOINTS GEOGRAPHIC COORDINATES

NAME	LATITUDE	LONGITUDE
Alpha	40-49.36N	073-53.22W
Alpine Tower	40-57.64N	073-55.36W
Amusement Park	40-58.00N	073-40.42W
Aqueduct Racetrack	40-40.34N	073-49.77W
Baisley Pond	40-40.67N	073-47.14W
Belmont Racetrack	40-42.96N	073-42.54W
Berry's Creek Bridge	40-48.66N	074-05.49W
Boonton Reservoir	40-53.00N	074-24.50W
Bravo	40-50.19N	073-52.42W
Bronx Zoo	40-50.76N	073-52.72W
Cedar Grove Reservoir	40-51.57N	074-12.83W
Clock	40-42.72N	074-02.03W
Co-op City	40-52.64N	073-49.69W
Cunningham Park	40-44.22N	073-46.25W
Essex Co Golf Club	40-47.19N	074-15.79W
Freeport	40-39.52N	073-34.07W
Fresh Kills Landfill	40-34.57N	074-12.43W
Galloping Hills Golf Course	40-41.03N	074-17.00W
Governors Island	40-41.07N	074-01.56W
GWB	40-51.08N	073-57.15W
Holy Cross Cemetery	40-47.26N	074-07.66W
Hudson	40-40.34N	074-02.68W
Intrepid	40-45.88N	074-00.05W
Jamaica Station	40-41.96N	073-48.54W
Jones Beach Monument	40-35.79N	073-30.49W
Kew Gardens	40-42.59N	073-49.83W
Lake Success	40-45.84N	073-42.47W
Lincoln Terrace Park	40-40.01N	073-55.61W
Livingston Mall	40-46.11N	074-20.98W
Lombardi Service Area	40-49.57N	074-01.68W
Manhattan Beach	40-34.54N	073-56.64W
Marine Parkway Bridge	40-34.41N	073-53.09W
Meadowlands	40-48.87N	074-04.51W
Nassau Coliseum	40-43.38N	073-35.45W
North Hudson Park	40-48.14N	074-00.04W
Oceanside Incinerator Plant	40-37.04N	073-38.37W
Oradell Reservoir	40-57.52N	074-01.23W
Ridgewood Reservoir	40-41.34N	073-53.19W
Sandy Hook	40-27.12N	073-59.97W
Short Hills Mall	40-44.61N	074-21.98W
Spuyten Duyvil	40-52.69N	073-55.54W
Statue of Liberty	40-41.35N	074-02.67W
Tappan Zee Bridge	41-04.27N	073-53.68W
Turnpike Bridge	40-41.69N	074-07.03W
Udall's Millpond	40-47.99N	073-44.84W
Van Cortlandt Park	40-53.51N	073-53.72W
VZ	40-36.41N	074-02.63W
Wakefield Switchyard	40-54.06N	073-50.94W
Willowbrook Expwy	40-36.74N	074-09.23W

NEW YORK TERMINAL AREA

BRONX ROUTE: North tip Roosevelt Island direct Triborough Bridge toll plaza via west side I-278 to point ALPHA (I-895/I-278 intersection) direct to point BRAVO I-95 intersection SE of Bronx Zoo) northbound via elevated railway to Wakefield switchyard.

THROGS ROUTE : Udall's Millpond direct south Stanchion Throgs Neck Bridge direct LGA control tower direct Bowery Bay direct Triborough Bridge direct north tip Roosevelt Island.

CENTRAL PARK ROUTE: North tip Roosevelt Island across Central Park Lake at 72nd Street direct Hudson River.

MARRIOTT ROUTE: LGA direct to Marriott Hotel direct to intersection of Long Island Expressway and the railroad tracks direct to Ridgewood Reservoir as assigned, (see ** routes).

VAN WYCK ROUTE: LGA direct Grand Central Parkway to Kew Gardens VIA Van Wyck Expressway to east side approach end of RWY 13L. Note: Turn for east side approach end of RWY 13L prior to crossing Southern Parkway. Northbound traffic remain east of Van Wyck, southbound remain west.

** BAISLEY ROUTE: Ridgewood Reservoir direct Baisley Pond direct east side approach end of RWY 13L.

** CONDUIT ROUTE: Ridgewood Reservoir direct Conduit Blvd. direct south side Aqueduct Racetrack direct JFK. NOTE: Arrivals remain south of Conduit, departures remain north.

** TRACK ROUTE: Intersection of Long Island Railroad and Meadowbrook State Parkway. West via Long Island Railroad to Ridgewood Reservoir direct to Lincoln Terrace Park. Note: Route may split at Ridgewood Reservoir.

SUNRISE ROUTE: Approach end RWY 13L direct Southern Parkway via Sunrise Highway direct Freeport.

MEADOWBROOK ROUTE: Intersection of Long Island Railroad and Meadowbrook State Parkway. South via Meadowbrook State Parkway direct Jones Beach.

CONEY ISLAND ROUTE: JFK direct old FLOYD BENNETT FIELD direct Coney Island to vicinity of West 32nd Street. Note: Helicopter activity in vicinity of old FLOYD BENNETT FIELD.

NORTH SHORE ROUTE: From VPROK waypoint (Execution Rocks Lighthouse) eastbound via VPLYD waypoint (north of Lloyd Harbor) to the VPJAY waypoint (northwest of Port Jefferson LIPA plant smokestacks), then via and off the shoreline to Orient Point. Note: CAUTION rotary and fixed-wing aircraft, possible wake turbulence from IFR jet traffic as noted on the chart.

SOUTH SHORE ROUTE: Verrazano Bridge to the tip of Coney Island direct to Breezy Point Jetty then eastbound via and off the shoreline to Montauk. Note: CAUTION rotary and fixed wing aircraft, banner towing, possible wake turbulence from JFK heavy jet overflights.

WILLIAMSBURG ROUTE: East River direct Williamsburg Bridge, maintain 900' eastbound south of Twin White Tanks direct Ridgewood Reservoir as assigned, (see ** routes).

RESERVOIR ROUTE: East 34th Street Heliport direct Newtown Creek to Twin White Tanks direct Ridgewood Reservoir as assigned, (see * * routes) .

HARLEM RIVER ROUTE: Triborough Bridge via Harlem River northbound to Spuyten Duyvil.

HUDSON RIVER ROUTE:

Northbound - East Side of Verrazano Bridge to Governors Island direct to southwest tip of Manhattan Island then via east bank to Spuyten Duyvil.

Southbound - Harlem River direct west bank of Hudson River southbound via west bank to western Holland Tunnel Ventilation Tower to Hudson Checkpoint.

EAST RIVER ROUTE:

Northbound - Governors Island direct Williamsburg Bridge via east bank to Bowery Bay.

Southbound - Bowery Bay to west bank via west bank to Battery Park.

CREEK ROUTE: Lincoln Terrace Park direct Spring Creek Park direct to a point immediately adjacent to northwest end of RWY 13R parallel taxiway. Note: Simultaneous fixed wing arrivals on JFK ILS RWY 13L.

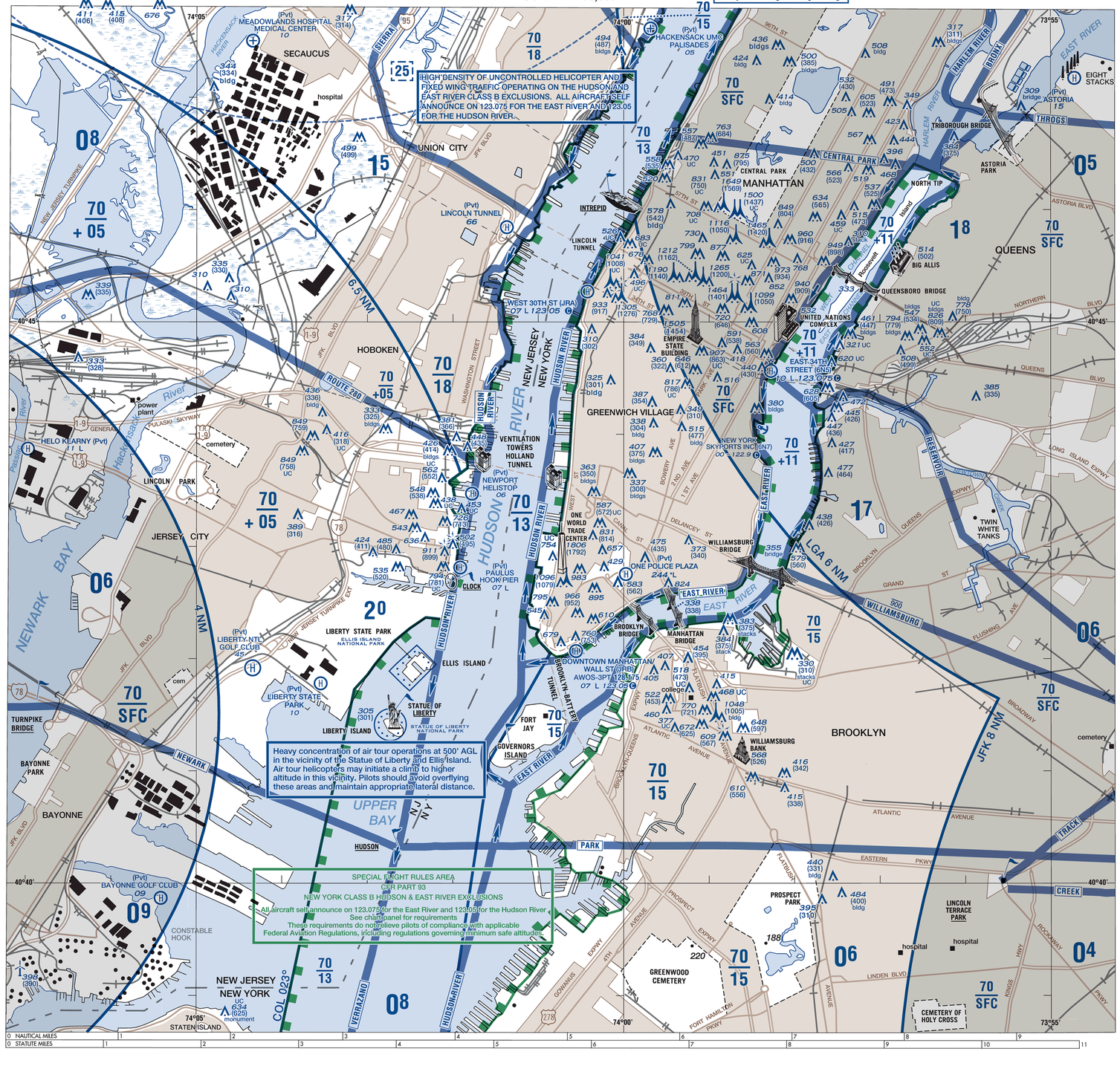
PARK ROUTE: JFK direct south side of Aqueduct Racetrack direct Prospect Park direct Hudson Checkpoint.

REPUBLIC ROUTE: Intersection of Broad Hollow Road and Fulton Street. Westbound over Fulton Street to Hempstead Turnpike. Westbound over Hempstead Turnpike to intersection with Meadowbrook State Parkway. Northbound over Meadowbrook State Parkway to Northern Parkway to Long Island Expressway. Westbound over Long Island Expressway to Cross Island Parkway. Northbound over Cross Island Parkway to Little Neck Bay. Overfly Little Neck Bay parallel to Cross Island Parkway to intersect THROGS ROUTE.

NOTE: PILOTS ANNOUNCE INTENDED ROUTE ON INITIAL CONTACT.

CAUTION: ROUTES DEPICTED AND ALTITUDES ASSIGNED DO NOT PROVIDE OBSTACLE CLEARANCE PROTECTION. PILOTS ARE RESPONSIBLE FOR SEEING AND AVOIDING TERRAIN AND OBSTACLES. THIS CHART DOES NOT DEPICT COMPLETE OBSTACLE INFORMATION DUE TO THE HIGH CONCENTRATION OF OBJECTS IN THE AREA. OBSTACLES AND OTHER FEATURES SUCH AS POWER TRANSMISSION LINES AND PROMINENT STRUCTURES ARE DEPICTED FOR LANDMARK VALUE ONLY.

DOWNTOWN MANHATTAN
STATUE OF LIBERTY / ELLIS ISLAND
SCALE 1 : 50,000



ROUTE DESCRIPTIONS

NEWARK TERMINAL AREA

VERRAZANO ROUTE: Hudson Checkpoint direct via Hudson River to center of Verrazano Bridge to offshore east of Staten Island shoreline (maintain clearance east of Gateway National Recreation Area) to Raritan River.

NEWARK ROUTE: Hudson Checkpoint direct east end of Turnpike Bridge, direct EWR direct Galloping Hills Golf Course.

ROUTE 280: Essex County Country Club Golf Course via Route I-280 to power plant direct West Entrance of Holland Tunnel. Note: Power plant has 5 in-line stacks.

NEW YORK TERMINAL AREA

HUDSON RIVER ROUTE:

Northbound - East Side of Verrazano Bridge to Governors Island direct to southwest tip of Manhattan Island then via east bank to Spuyten Duyvil.

Southbound - Harlem River direct west bank of Hudson River southbound via west bank to western Holland Tunnel Ventilation Tower to Hudson Checkpoint.

EAST RIVER ROUTE:

Northbound - Governors Island direct Williamsburg Bridge via east bank to Bowery Bay.

Southbound - Bowery Bay to west bank via west bank to Battery Park.

PARK ROUTE: JFK direct south side of Aqueduct Racetrack direct Prospect Park direct Hudson Checkpoint.

BRONX ROUTE: North tip Roosvelt Island direct Triborough Bridge toll plaza via west side I-278 to point ALPHA (I-895/I-278 intersection) direct to point BRAVO I-95 intersection SE of Bronx Zoo) northbound via elevated railway to Wakefield switchyard.

THROGS ROUTE : Udall's Millpond direct south Stanchion Throgs Neck Bridge direct LGA control tower direct Bowery Bay direct Triborough Bridge direct north tip Roosevelt Island.

CENTRAL PARK ROUTE: North tip Roosevelt Island across Central Park Lake at 72nd Street direct Hudson River.

** **TRACK ROUTE:** Intersection of Long Island Railroad and Meadowbrook State Parkway. West via Long Island Railroad to Ridgewood Reservoir direct to Lincoln Terrace Park. Note: Route may split at Ridgewood Reservoir.

WILLIAMSBURG ROUTE: East River direct Williamsburg Bridge, maintain 900' eastbound south of Twin White Tanks direct Ridgewood Reservoir as assigned, (see ** routes).

RESERVOIR ROUTE: East 34th Street Heliport direct Newtown Creek to Twin White Tanks direct Ridgewood Reservoir as assigned, (see * * routes) .

HARLEM RIVER ROUTE: Triborough Bridge via Harlem River northbound to Spuyten Duyvil.

CREEK ROUTE: Lincoln Terrace Park direct Spring Creek Park direct to a point immediately adjacent to northwest end of runway 13R parallel taxiway. Note: Simultaneous fixed wing arrivals on JFK ILS runway 13L.

TETERBORO TERMINAL AREA

SIERRA ROUTE:

DEPARTURE - Direct to windsock at Coca Cola plant to stack at metal treatment plant direct to the Lombardi Service Area. REMAINING ON THE SOUTH SIDE OF EMPIRE BLVD. AT ALL TIMES, to the west entrance of the Lincoln Tunnel (via overhead N.J. Turnpike, I-95, - east extension and Route 3) or North Hudson Park.

ARRIVAL - Via the west entrance to the Lincoln Tunnel or via North Hudson Park to the Lombardi Service Area direct to stack at metal treatment plant direct to windsock at Coca Cola plant. REMAINING ON THE SOUTH SIDE OF EMPIRE BLVD. AT All TIMES, then direct to the airport REMAINING EAST OF THE EXTENDED CENTERLINE OF RUNWAY 01/19 and CLEAR ALL RESIDENTIAL AREAS.

NOTE: PILOTS ANNOUNCE INTENDED ROUTE ON INITIAL CONTACT

CAUTION: ROUTES DEPICTED AND ALTITUDES ASSIGNED DO NOT PROVIDE OBSTACLE CLEARANCE PROTECTION. PILOTS ARE RESPONSIBLE FOR SEEING AND AVOIDING TERRAIN AND OBSTACLES. THIS CHART DOES NOT DEPICT COMPLETE OBSTACLE INFORMATION DUE TO THE HIGH CONCENTRATION OF OBJECTS IN THE AREA. OBSTACLES AND OTHER FEATURES SUCH AS POWER TRANSMISSION LINES AND PROMINENT STRUCTURES ARE DEPICTED FOR LANDMARK VALUE ONLY.

VISUAL CHECKPOINT
GEOGRAPHIC COORDINATES

NAME	LATITUDE	LONGITUDE
Clock	40-42.72N	074-02.03W
Governors Island	40-41.07N	074-01.56W
Hudson	40-40.34N	074-02.68W
Intrepid	40-45.88N	074-00.05W
Lincoln Terrace Park	40-40.01N	073-55.61W
Statue of Liberty	40-41.35N	074-02.67W
Turnpike Bridge	40-41.69N	074-07.03W

SPECIAL FLIGHT RULES AREA (SFRA)

EXAMPLES OF CLASS B ALTITUDES

70 — — — Ceiling in hundreds of feet MSL

30 — — — Floor in hundreds of feet MSL

(Floors extending "upward from above" a certain altitude are preceded by a (+). Operations at and below these altitudes are outside of Class B Airspace.)

HELICOPTER ROUTES DEPICTED ALONG RIVER SHORELINES ARE INTENDED TO BE FLOWN OVER WATER, NOT PIERS, BULKHEADS, OR LAND.

REGULATIONS REGARDING FLIGHTS OVER CHARTED NATIONAL PARK SERVICE AREAS, U.S. FISH AND WILDLIFE SERVICE AREAS, AND U.S. FOREST SERVICE AREAS

The landing of aircraft is prohibited on lands or waters administered by the National Park Service, U.S. Fish and Wildlife Service or U.S. Forest Service without authorization from the respective agency. Exceptions include: 1) when forced to land due to an emergency beyond the control of the operator, 2) at officially designated landing sites, or 3) on approved official business of the Federal Government.
All aircraft are requested to maintain a minimum altitude of 2,000 feet above the surface of the following: National Parks, Monuments, Seashores, Lakeshores, Recreation Areas and Scenic Riverways administered by the National Park Service; National Wildlife Refuges, Big Game Refuges, Game Ranges and Wildlife Ranges administered by the U.S. Fish and Wildlife Service; and Wilderness and Primitive areas administered by the U.S. Forest Service. FAA Advisory Circular (AC) 91-36, "Visual Flight Rules (VFR) Flight Near Noise-Sensitive Areas," defines the surface as: the highest terrain within 2,000 feet laterally of the route of flight, or the upper-most rim of a canyon or valley.
Federal regulations also prohibit airdrops by parachute or other means of persons, cargo, or objects from aircraft on lands administered by the three agencies without authorization from the respective agency. Exceptions include: 1) emergencies involving the safety of human life, or 2) threat of serious property loss.

Boundary of National Park Service areas, U.S. Fish and Wildlife Service areas, and U.S. Forest Service Wilderness and Primitive areas.

ROUTE DESCRIPTIONS

REPUBLIC TERMINAL AREA

SOUTHERN ROUTE:

ARRIVAL - Enter at Southern State Parkway and the Seaford Oyster Bay Expressway (Exit 27). Overfly Southern State Parkway until Route 110 (Exit 32), then northbound to Route 109.

DEPARTURE - Southbound and parallel runway 01/19 until intersection of Route 109 & 110. Overfly Southern State Parkway until Seaford Oyster Expressway, then proceed on course.

RECOMMENDED ALTITUDE - 1100 FEET.

MICROWAVE ROUTE:

ARRIVAL - Enter at Plainview and I-495 (Exit 46) and proceed directly to Microwave Tower, then southeast bound to Huntington Hilton. Follow Route 110 until airport.

DEPARTURE - Northbound and parallel runway 01/19 until Multiplex Theater. Route 110 North until Huntington Hilton, then northwest bound to Microwave Tower. Intercept Long Island Expressway then proceed on course.

RECOMMENDED ALTITUDE - 1100 FEET.

NEW YORK TERMINAL AREA

REPUBLIC ROUTE: Intersection of Broad Hollow Road and Fulton Street. Westbound over Fulton Street to Hempstead Turnpike. Westbound over Hempstead Turnpike to intersection with Meadowbrook State Parkway. Northbound over Meadowbrook State Parkway to Northern Parkway to Long Island Expressway. Westbound over Long Island Expressway to Cross Island Parkway. Northbound over Cross Island Parkway to Little Neck Bay. Overfly Little Neck Bay parallel to Cross Island Parkway to intersect THROGS ROUTE.

NORTH SHORE ROUTE: From VPROK waypoint (Execution Rocks Lighthouse) eastbound via VPLYD waypoint (north of Lloyd Harbor) to the VPJAY waypoint (northwest of Port Jefferson LIPA plant smokestacks), then via and off the shoreline to Orient Point. Note: CAUTION rotary and fixed-wing aircraft, possible wake turbulence from IFR jet traffic as noted on the chart.

SOUTH SHORE ROUTE: Breezy Point Jetty then eastbound via and off the shoreline to Montauk. Note: CAUTION rotary and fixed wing aircraft, banner towing, possible wake turbulence from JFK heavy jet overflights.

NOTE: PILOTS ANNOUNCE INTENDED ROUTE ON INITIAL CONTACT

CAUTION: ROUTES DEPICTED AND ALTITUDES ASSIGNED DO NOT PROVIDE OBSTACLE CLEARANCE PROTECTION. PILOTS ARE RESPONSIBLE FOR SEEING AND AVOIDING TERRAIN AND OBSTACLES. THIS CHART DOES NOT DEPICT COMPLETE OBSTACLE INFORMATION DUE TO THE HIGH CONCENTRATION OF OBJECTS IN THE AREA. OBSTACLES AND OTHER FEATURES SUCH AS POWER TRANSMISSION LINES AND PROMINENT STRUCTURES ARE DEPICTED FOR LANDMARK VALUE ONLY.

CONTROL TOWER FREQUENCIES ON EASTERN LONG ISLAND INSET

Airports with control towers are indicated on the face of the chart by the letters CT followed by the primary VHF tower frequency(ies). Information for each tower is listed in the table below. Operational hours are local time. The primary VHF and UHF tower and ground control frequencies are listed.

Automatic Terminal Information Service (ATIS) frequencies shown on the face of the chart are arrival VHF/UHF frequencies. All ATIS frequencies are listed in the table below. ATIS operational hours may differ from tower operational hours.

"MON-FRI" indicates Monday through Friday.

O/T indicates other times.

CONTROL TOWER	OPERATES	TOWER	GND CON	ATIS
BRIDGEPORT/SIKORSKY	0630-2200	120.9 257.8	121.75 257.8	119.15
EAST HAMPTON TOWN	0900-2000 SAT BEFORE MEML DAY-SUN AFTER LABOR DAY	123.225	121.9	
FRANCIS S. GABRESKI	0700-2300	125.3 236.6	121.8 225.4	
LONG ISLAND MAC ARTHUR	0600-2400	119.3 233.5	135.3	120.725
REPUBLIC	0700-2300	118.8 279.65	121.6 269.6	126.65

CLASS B, CLASS C, TRSA, AND SELECTED APPROACH CONTROL FREQUENCIES

FACILITY	FREQUENCIES	SERVICE AVAILABILITY
LONG ISLAND CLASS C	120.05 343.75	0600-2400; O/T CLASS E

SPECIAL USE AIRSPACE ON EASTERN LONG ISLAND INSET

Unless otherwise noted altitudes are MSL and in feet. Time is local. "TO" on altitude means "To and including." FL = Flight Level NO A/G = No air to ground communications. Contact Flight Service for information.

† Other times by NOTAM. NOTAM+ Use of this term in Restricted Areas indicates FAA and DoD NOTAM systems. Use of this term in all other Special Use areas indicates the DoD NOTAM system.

U.S. P-PROHIBITED, R-RESTRICTED, W-WARNING, A-ALERT, MOA-MILITARY OPERATIONS AREA

NUMBER	ALTITUDE	TIME OF USE	CONTROLLING AGENCY/ CONTACT FACILITY	FREQUENCIES
W-105 A	TO FL 500	INTERMITTENT BY NOTAM	BOSTON CNTR	
W-106 A	TO 3000	INTERMITTENT BY NOTAM	NEW YORK CNTR	
W-106 B	TO 8000	INTERMITTENT BY NOTAM	NEW YORK CNTR	

REGULATORY NOTICES

NEW YORK CLASS B HUDSON RIVER AND EAST RIVER EXCLUSIONS

SPECIAL FLIGHT RULES AREA CFR PART 93

Airspace

Special air traffic rules and communication requirements are in effect for persons operating aircraft under VFR, to, from, or in the vicinity of the New York Class B airspace. These procedures are in effect within the following boundaries:

Hudson River: That airspace below 1300 feet MSL between the east and west banks of, and overlying, the Hudson River within the area beginning north of LaGuardia Airport on the west bank of the Hudson River at lat. 40°57'45"N., long. 73°54'48"W. (near Alpine Tower) thence south along the west bank of the Hudson River to intersect the Colts Neck VOR-DME 023° (M) radial, thence southwest along the Colts Neck 023° (M) radial to the Hudson River shoreline, thence south along the shoreline to the Verrazano-Narrows Bridge, thence east along the bridge to the east bank of the Hudson River, thence north along the east bank of the Hudson River to lat. 40°58'39"N., long. 74°02'03"W., thence north along a line drawn direct to the southwestmost point of Governors Island, thence north along a line drawn direct to the southwest tip of Manhattan Island, thence north along the east bank of the Hudson River to the LGA VOR-DME 11-mile arc, north of LaGuardia Airport, thence counterclockwise along the 11-mile arc to lat. 40°57'54"N., long. 73°54'23"W., thence to the point of beginning.

East River: That airspace below 1500 feet MSL between the east and west banks of, and overlying, the East River beginning at lat. 40°36'39"N., long. 74°02'03"W., to the southwestern tip of Governors Island to the southwestern tip of Manhattan Island, thence north along the west bank of the East River to the LGA VOR-DME 6-mile arc; thence counterclockwise along the 6-mile arc to the east bank of the East River, thence south along the east bank of the East River to the point of beginning at lat. 40°38'39"N., long. 74°02'03"W.; and that airspace 1100 feet MSL and below between the east and west banks of, and overlying, the East River from the LGA VOR-DME 6-mile arc to the northern tip of Roosevelt Island.

Communications

No person may operate an aircraft within the airspace specified above unless that person continuously monitors and communicates, as appropriate, on the designated common traffic advisory frequency (CTAF). Pilots self-announce at the following charted mandatory reporting points:

Alpine Tower
GWB
Intrepid
Clock
Statue of Liberty
VZ

Include the following information: aircraft type, current position, direction of flight and altitude.

Aircraft Operation

The following practices are mandatory in both the Hudson River and East River Exclusions:

Maintain an indicated airspeed not to exceed 140 knots.
Anti-collision lights and aircraft position/navigation lights shall be on. Use of landing lights is recommended. Pilots must have a current New York TAC and/or New York Helicopter Route Chart in the aircraft and familiarize themselves with the information contained therein.

The following practices are mandatory in the Hudson River Exclusion:

Fly along the west shoreline of the Hudson River when southbound, and along the east shoreline of the Hudson River when northbound while remaining within the boundaries of the Hudson River Exclusion. Aircraft overflying the area within the Hudson River Exclusion, but not landing or departing any of the Manhattan heliports or landing facilities, or conducting any local area operations, must transit the Hudson River Exclusion at or above an altitude of 1000 feet MSL up to, but not including, the floor of the overlying Class B airspace.
Self-announce as described above under Communications.

The following practices are mandatory in the East River Exclusion:

VFR flight operations by fixed-wing aircraft (excluding seaplane fixed-wing aircraft landing or departing the New York Skyports Inc. Seaplane Base) in the East River Class B Exclusion (from the southwestern tip of Governors Island to the northern tip of Roosevelt Island) are prohibited unless authorized and being controlled by ATC. To obtain authorization, pilots must contact LaGuardia Airport Traffic Control Tower prior to Governors Island.
Self-announce position on the appropriate CTAF.

